RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _09/816,989_

Source: _OIPE_

Date Processed by STIC: _08/21/2001_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:
http://www.uspto.gov/web/offices/pac/checker

Raw Sequence Listing Error Summary

ERROR DETECTED   SUGGESTED CORRECTION   SERIAL NUMBER: 09/816,989

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1____Wrapped Nucleics   The number/text at the end of each line "wrapped" down to the next line. This may occur if your file
    Wrapped Aminos   was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will
    prevent "wrapping."

2____Invalid Line Length   The rules require that a line not exceed 72 characters in length. This includes white spaces.

3____Misaligned Amino   The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers;
    Numbering   use space characters, instead.

4____Non-ASCII   The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please
    ensure your subsequent submission is saved in ASCII text.

5____Variable Length   Sequence(s)____contain n's or Xaa's representing more than one residue. Per Sequence Rules,
    each n or Xaa can only represent a single residue. Please present the maximum number of each
    residue having variable length and indicate in the <220>-<223> section that some may be missing.

6____PatentIn 2.0   A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
    "bug"   sequences(s) _____. Normally, PatentIn would automatically generate this section from the
    previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to
    the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for
    Artificial or Unknown sequences.

7____Skipped Sequences   Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
    (OLD RULES)   (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
    (i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
    (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
    This sequence is intentionally skipped

    Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8____Skipped Sequences   Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
    (NEW RULES)   <210> sequence id number
    <400> sequence id number
    000

9____Use of n's or Xaa's   Use of n's and/or Xaa's have been detected in the Sequence Listing.
    (NEW RULES)   Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
    In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10____Invalid <213>   Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or
    Response   scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or
    is Artificial Sequence

11 ✓ Use of <220>   Sequence(s) _6_ missing the <220> "Feature" and associated numeric identifiers and responses.
    Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or
    "Unknown." Please explain source of genetic material in <220> to <223> section.
    (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32)   (Sec. 1.823 of Sequence Rules)

12____PatentIn 2.0   Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file,
    "bug"   resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence
    listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

OIPE

RAW SEQUENCE LISTING   DATE: 08/21/2001
PATENT APPLICATION: US/09/816,989   TIME: 11:38:59

Input Set : A:\ES.txt
Output Set: N:\CRF3\08162001\I816989.raw

```
 3 <110> APPLICANT: Alexander Gad
 4         Doris Lis
 6 <120> TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT
MARKERS AND
 7         FOR THERAPEUTIC USE
 9 <130> FILE REFERENCE: 60807-PCT-US
11 <140> CURRENT APPLICATION NUMBER: 09/816,989
C--> 12 <141> CURRENT FILING DATE: 1999-09-24
14 <150> PRIOR APPLICATION NUMBER: PCT/US99/22402
15 <151> PRIOR FILING DATE: 1999-09-24
17 <160> NUMBER OF SEQ ID NOS: 7
19 <170> SOFTWARE: PatentIn version 3.1
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 35
23 <212> TYPE: PRT
24 <213> ORGANISM: Artificial Sequence
26 <220> FEATURE:
27 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC PEPTIDE
29 <400> SEQUENCE: 1
31 Ala Lys Lys Tyr Ala Lys Lys Glu Lys Ala Ala Lys Lys Ala Tyr Lys
32 1               5                   10                  15
35 Lys Glu Ala Lys Ala Lys Ala Ala Glu Ala Ala Ala Lys Glu Ala Ala
36             20                  25                  30
39 Tyr Glu Ala
40          35
43 <210> SEQ ID NO: 2
44 <211> LENGTH: 45
45 <212> TYPE: PRT
46 <213> ORGANISM: Artificial Sequence
48 <220> FEATURE:
49 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC PEPTIDE
51 <400> SEQUENCE: 2
53 Ala Lys Lys Tyr Ala Lys Lys Ala Lys Ala Glu Lys Ala Lys Lys Ala
54 1               5                   10                  15
57 Tyr Lys Ala Ala Glu Ala Lys Lys Ala Ala Lys Tyr Glu Lys Ala Ala
58             20                  25                  30
61 Ala Glu Lys Ala Ala Ala Lys Glu Ala Ala Tyr Glu Ala
62          35                  40                  45
65 <210> SEQ ID NO: 3
66 <211> LENGTH: 56
67 <212> TYPE: PRT
68 <213> ORGANISM: Artificial Sequence
70 <220> FEATURE:
71 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC PEPTIDE
73 <400> SEQUENCE: 3
75 Ala Lys Lys Tyr Ala Lys Lys Glu Lys Ala Tyr Ala Lys Lys Ala Glu
76 1               5                   10                  15
79 Lys Ala Ala Lys Lys Ala Glu Ala Lys Ala Tyr Lys Ala Ala Glu Ala
```

Does Not Comply
Corrected Diskette Needed

See page 2 of 5

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Input Set : A:\ES.txt
Output Set: N:\CRF3\08162001\I816989.raw

```
80              20              25              30
83 Lys Lys Lys Ala Glu Ala Lys Tyr Lys Ala Glu Ala Ala Lys Ala Ala
84          35              40              45
87 Ala Lys Glu Ala Ala Tyr Glu Ala
88     50              55
91 <210> SEQ ID NO: 4
92 <211> LENGTH: 66
93 <212> TYPE: PRT
94 <213> ORGANISM: Artificial Sequence
96 <220> FEATURE:
97 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC PEPTIDE
99 <400> SEQUENCE: 4
101 Ala Lys Lys Tyr Ala Lys Lys Glu Lys Ala Tyr Ala Lys Ala Lys Lys
102 1               5               10              15
105 Ala Glu Ala Lys Ala Ala Lys Lys Ala Lys Ala Glu Ala Lys Lys Tyr
106          20              25              30
109 Ala Lys Ala Ala Lys Ala Glu Lys Lys Glu Tyr Ala Ala Ala Glu Ala
110         35              40              45
113 Lys Tyr Lys Ala Glu Ala Ala Lys Ala Ala Ala Lys Glu Ala Ala Tyr
114     50              55              60
117 Glu Ala
118 65
121 <210> SEQ ID NO: 5
122 <211> LENGTH: 77
123 <212> TYPE: PRT
124 <213> ORGANISM: Artificial Sequence
126 <220> FEATURE:
127 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC PEPTIDE
129 <400> SEQUENCE: 5
131 Ala Lys Lys Tyr Ala Lys Lys Glu Lys Ala Tyr Ala Lys Lys Ala Glu
132 1               5               10              15
135 Lys Ala Ala Lys Lys Ala Glu Ala Lys Ala Tyr Lys Ala Ala Glu Ala
136          20              25              30
139 Lys Lys Lys Ala Lys Ala Glu Ala Lys Lys Tyr Ala Lys Ala Ala Lys
140         35              40              45
143 Ala Glu Lys Lys Glu Tyr Ala Ala Ala Glu Ala Lys Tyr Lys Ala Glu
144     50              55              60
147 Ala Ala Lys Ala Ala Ala Lys Glu Ala Ala Tyr Glu Ala
148 65              70              75
151 <210> SEQ ID NO: 6
152 <211> LENGTH: 86
153 <212> TYPE: PRT
154 <213> ORGANISM: Artificial Sequence
156 <220> FEATURE:
157 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC P
159 <400> SEQUENCE: 6
161 Ala Lys Lys Tyr Ala Lys Lys Glu Lys Ala Tyr Ala Lys Lys Ala Glu
162 1               5               10              15
165 Lys Ala Ala Lys Lys Ala Glu Ala Lys Ala Tyr Lys Ala Ala Glu Ala
```

Errored

need to describe artificial sequence in field 223

RAW SEQUENCE LISTING   DATE: 08/21/2001
PATENT APPLICATION: US/09/816,989   TIME: 11:38:59

Input Set : A:\ES.txt
Output Set: N:\CRF3\08162001\I816989.raw

```
166              20              25              30
169 Lys Lys Lys Ala Lys Ala Glu Ala Lys Lys Tyr Ala Lys Ala Ala Lys
170         35              40              45
173 Ala Glu Lys Lys Glu Tyr Ala Ala Ala Glu Ala Lys Tyr Lys Ala Glu
174     50              55              60
177 Ala Ala Lys Lys Ala Tyr Lys Ala Glu Ala Ala Lys Ala Ala Ala Lys
178 65              70              75              80
181 Glu Ala Ala Tyr Glu Ala
182              85
185 <210> SEQ ID NO: 7
186 <211> LENGTH: 109
187 <212> TYPE: PRT
188 <213> ORGANISM: Artificial Sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC PEPTIDE
193 <400> SEQUENCE: 7
195 Ala Lys Lys Tyr Ala Lys Lys Ala Glu Lys Ala Tyr Ala Lys Lys Ala
196 1           5              10              15
199 Lys Ala Ala Lys Glu Lys Lys Ala Tyr Ala Lys Lys Glu Ala Lys Ala
200         20              25              30
203 Tyr Lys Ala Ala Glu Ala Lys Lys Lys Ala Lys Ala Glu Ala Lys Lys
204         35              40              45
207 Tyr Ala Lys Glu Ala Ala Lys Ala Lys Lys Glu Ala Tyr Lys Ala Glu
208     50              55              60
211 Ala Lys Lys Tyr Ala Lys Ala Ala Lys Ala Glu Lys Lys Glu Tyr Ala
212 65              70              75              80
215 Ala Ala Glu Ala Lys Lys Ala Glu Ala Ala Lys Ala Tyr Lys Ala Glu
216              85              90              95
219 Ala Ala Lys Ala Ala Ala Lys Glu Ala Ala Tyr Glu Ala
220              100             105
```

VERIFICATION SUMMARY   DATE: 08/21/2001
PATENT APPLICATION: **US/09/816,989**   TIME: 11:39:00

Input Set : **A:\ES.txt**
Output Set: **N:\CRF3\08162001\I816989.raw**

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date